

2. MELANIA BALONNENSIS.

Melania Balonnensis, Conrad, Proc. Acad. Nat. Sciences Phil., p. 11, 1850. American Journal Conch. ii., p. 80, pl. 1, fig. 10, 1866. Brot in Martini and Chemnitz, Conch. Cab. p. 287, pl. 28, fig. 14 a. and 15, 1874.

Hab. Lower Murray River, South Australia (*Professor Tate*).

This species is of a much lighter texture than *M. Tatei*, also lighter coloured, and the ribs not so distinct on the body whorl.

CHECK LIST OF THE FRESH-WATER SHELLS OF AUSTRALIA.

BY RALPH TATE, ASSOC. LINN. SOC., F.G.S., CORR. MEMB. ACAD. SC. PHILAD., ROY. SOC. TASMAN, &c., PROFESSOR OF NATURAL HISTORY, UNIVERSITY OF ADELAIDE; AND JOHN BRAZIER, CORR. MEMB. ZOOL. SOC., ROY. SOC. TASM., &c.

In this communication, we have attempted to bring together the scattered published sources of information concerning the fresh-water molluscs of Australia, in the hope that it may serve as a basis for a monograph on the subject. Excepting the labours of Deshayes and Lea, among the lamellibranchs, no comprehensive survey of the fresh-water shells of this continent has been attempted. It is true that the fresh-water shells of Tasmania have been arranged by Messrs. Woods and Johnston, but, in this case no comparison has been instituted between the insular and continental faunas; and it may safely be alleged that, in general, the knowledge of our fresh-water shells consists of a number of units, which in no sort of way have been brought into relationship one with another. Thus, each geographical region is made to be exceptionally distinct from neighbouring ones. Whether this be actually true?, or whether it be apparently so, because of the imperfect state of our knowledge? Are questions which must be determined, before any generalizations can be made.

Our experience in the literature is such as induces us to urge, that a systematic effort be made to revise the whole nomenclature relating to the subject. Australian naturalists are, we think, all agreed that a work of this kind can be efficiently undertaken by ourselves; and as this Society, in its corporate capacity, is more capable of securing co-operation, than an individual is, we would suggest, in the above connection, that it take the initiatory steps.

In the accompanying list, we have refrained from critical remarks of our own; but have tentatively accepted those which have been published by others. Therein, we have endeavoured to arrange the species so as to indicate their alliances; the localities given are those appended to the original diagnoses, excepting in such cases where previously none had been known a locality has since been found. In the *Unionidæ* we have largely availed ourselves of Mr. Etheridge's list of the Recent Australian Species in Rep. Depart. Mines, N.S.W., 1878, p. 165.

We would call attention to the fact that the animals of nearly all the species have not been examined, and in consequence the systematic position of many has merely been guessed at. If the distinctions between *Physa* and *Amplexa*, *Lymnæa* and *Amphipeplea*, *Ancylus* and *Velletia*, &c., are to be maintained, then is there the greater need for this kind of investigation. Personal examination in this direction has elicited the fact that species described as *Physa* and *Amphipeplea* are wrongly referred to those genera. Particularly among the fresh-water *Rissoidæ* does much generic confusion prevail.

The result of the present compilation, so far as numbers are concerned, is as follows:—

<i>Lymnæa</i>	16
<i>Physa</i>	54 More than half for the whole world.
<i>Physopsis</i>	1
<i>Ancylus</i>	4

Gundlachia	..	1
Planorbis	..	7
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Total Pulmonates	..	83
Melaniadæ	..	17
Paludinidæ	..	10
Valvatridæ	..	1
Neritidæ	..	8
Rissoidæ	..	19
Assunmiadæ	..	2
Cyrenidæ	..	26
Unionidæ	..	21
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Total	..	189

Class PULMONATA (*Limnophila*).

Family LYMNÆIDÆ.

Genus LYMNÆA.

- brevicauda*, *Sowerby*, in *Reeve's Icon.*, t. 15, f. 105, 1872.—Australia.
- globosa*, *Sowerby*, in *Reeve's Icon.* t. 12, f. 84.—Australia.
- Melbournensis*, *Pfeiffer*, *Novitates Conch.*, p. 70, t. 19, f. 14, 15 ;
Reeve, *Icon.*, *Conch.*, t. 6, f. 39.—Melbourne.
- Lessoni*, *Deshayes*, *Magaz. de Conchyl.* ; *Lesson*, *Voy. Coquille*,
Vol. 2, p. 330.—River Macquarie at Bathurst.
- Strangei*, *Pfeiffer*, *Malakozool Bl.* Vol. 1, p. 64, 1844 ; *id.*, *Nov.*
Conch., Vol. 1, p. 6, t. 2, f. 5-7 ; *Reeve*, *Icon. Conch.*, t. 6,
f. 40.—Moreton Bay.
- Angasi*, *Sowerby*, in *Reeve's Icon. Conch.*, t. 2, f. 11, 1872.—
Port Darwin.
- perlevis*, *Conrad*, *American Jour. Conch.*, Vol. 2, p. 80, t. 1, f. 5,
1850.—Rivers Balonne and Salamanca.

vinosa, *Adams & Angas*, Proc. Zool. Soc., p. 415, 1863; *Reeve*,
Icon., t. 6, f. 37.—Adelaide River.

Phillipsi, *Adams & Angas*, P.Z.S., p. 416, 1863; *Reeve*, Icon. t. 6,
f. 41.—Arnheim Land.

Deshayesi, *Adams*, P.Z.S., *Reeve*, Icon., t. 14, f. 95, 1872.—
Australia.

spirulata, *Mousson*, Journ. de Conchyl.; *Reeve*, Icon. t. 15, f. 106.
—Australia.

papyracea, *Tate*, Trans. Roy. Soc., S. Aust., p. 103, t. 4, f. 5,
1880.—Penola (S. A.).

subaquatilis, *Tate*, op. cit., t. 4, f. 6.—Adelaide.

involuta, *Mousson*, Cat. v., Mus. Godeffroy, p. 89, 1874.—
Queensland.

acuta, *Mousson*, op. cit., p. 89, 1874.—Queensland.

australiana, *Cox*, Paetel, Cat. der Conch., p. 115, 1873.—
Queensland.

Extra limital species of Lymnæa.

Cumingi, *Pfeiffer*, P.Z.S., p. 68, 1845, of the Philippines is
incorrectly stated in *Reeve* to be Australian.

Hobarttonensis, T.-Woods, Roy. Soc. Tasm., p. 71, 1876.—I.
peregra (*teste* Johnston).

Launcestonensis, T.-Woods, op. cit., p. 71.—I. peregra (*teste*
Johnston).

Huonensis, T.-Woods, op. cit., p. 71.—*Launcestonensis* (*teste*
Petterd).

Tasmanica, T.-Woods, op. cit., p. 70.—*Stagnalis* (*teste* Petterd).

Genus *PHYSA*.

latilabiata, *Sowerby*, in *Reeve's* Icon., t. 5, f. 33, 1873.—R.
Victoria.

Newcombi, *Adams & Angas*, P.Z.S., p. 416, 1863; *Reeve*, Icon.,
t. 3, f. 21.—Mount Margaret (C. Aust.)

ferruginea, *Adams & Angas*, op. cit.; *Reeve*, t. 4, f. 25.—Arnheim
Land.

- Hainesii*, *Tryon*, Am. Journ. Conch., Vol. 2, t. 2, f. 9, p. 9.—
Australia.
- subinflata, *Sowerby*, in *Reeve's Icon.*, t. 1, f. 6a.—S. Australia.
- inflata, *Adams & White*, P.Z.S., p. 39, 1864; *Reeve*, t. 1, f. 4.—
S. Australia.
- Van Diemenensis*, *Sowerby*, in *Reeve's Icon.*, t. 8, f. 57, 1873.—
Tasmania.
- aperta, *Sowerby*, in *Reeve's Icon.*, t. 11, f. 88, 1874.—Tasmania.
- crebreciliata, *T.-Woods*, Trans. Roy. Soc., Victoria, 1877.—
Melbourne.
- pilosa, *T.-Woods*, op. cit.—Melbourne.
- pinguis, *Sowerby*, *Reeve*, t. 12, f. 93, 1874.—S. Australia.
- subundata, *Sowerby*, *Reeve* t. 8, f. 61, 1873.—“St. Margaret's,”
S. Aust.
- castanea, *Sowerby*, Genera of Shells; *Reeve*, t. 10, f. 86.—
Australia.
- pectorosa, *Conrad* (1850); *Tryon*, Am. Journ. Conch., Vol. 2.,
t. 1, f. 6.—R. Bogan (N.S.W.)
- vullata, *Sowerby*, *Reeve's Icon.*, t. 12, f. 97, 1874.—S. Australia.
- concinna, *Adams & Angas*, P.Z.S., p. 417, 1863; *Reeve*, *Icon.*,
t. 5, f. 35.—Arnhem Land.
- Georgiana, *Quoy & Gaimard*, Voy. Astrolabe, t. 58, f. 23, 24.—
King George's Sound.
- dispar, *Sowerby*, in *Reeve*, t. 8, f. 66, 1873.—New South Wales.
- Novæ Hollandiæ, *Blainville*, Malacolo, t. 37, f. 3; *Lesson*, Voy.
Coq., t. 26, f. 5, 1830; *Reeve*, t. 2, f. 10.—R. Macquarie.
- puncturata, *Sowerby*, *Reeve's Icon.*, t. 11, f. 91, 1874.—Australia.
- duplicata, *Sowerby*, op. cit., t. 12, f. 100, 1874.—Wide Bay,
Queensland.
- tenuistriata, *Sowerby*, op. cit., t. 10, f. 85, 1873.—R. Torrens
(S.A.)
- arachnoidea *T.-Woods*, Trans. Roy. Soc. Victoria, 1877.—Near
Melbourne.

- australiana, *Conrad* (1850); *Tryon* Am. Jour. Conch., Vol. 2, t. 1, f. 7.—R. Bogan.
- australis, *Koch*, Cat. V., Mus. Godeffroy, p. 89, 1874.—Bowen, Queensland.
- nitida, *Sowerby*, in *Reeve's Icon.*, t. 12, f. 98, 1874.—Tasmania.
- Huonensis, *T.-Woods*, Trans. Roy. Soc., Tasmania, p. 74, 1875.—Tasmania.
- (Possibly a variety of *nitida*, teste *Petterd.*)
- Bruniensis, *Sowerby*, in *Reeve's Icon.*, t. 12, f. 99, 1874.—Tasmania.
- Tasmanicola, *T.-Woods*, op. cit., p. 75, 1875.—Tasmania.
- Huonicola, *T.-Woods*, op. cit., p. 75, 1875.—Tasmania.
- Yarraensis, *T.-Woods*, Trans. Roy. Soc. Victoria, 1877.—Upper Yarra, Vict.
- acutispira, *Tryon*, Am. Jour. Conch., Vol. 2, t. 2, f. 10.—Australia.
- olivacea, *Adams & Angas*, P.Z.S., p. 416, 1873; *Reeve*, *Icon. Conch.*, t. 5, f. 34.—Arnheim Land.
- fusiformis, *Nelson & Taylor*, Journ. Conch., Vol. 2, t. 1, f. 9, p. 289, 1879.—R. Richmond, N.S.W.
- proteus, *Sowerby*, in *Reeve's Icon.*, t. 6, f. 43, 1873.—W. Australia.
- gibbosa, *Gould*, "Otia," p. 42, 1847; *Reeve*, t. 4, f. 27.—New South Wales.
- texturata, *Sowerby*, in *Reeve's Icon.*, t. 12, f. 95, 1874.—S. Australia.
- badia, *Adams & Angas*, P.Z.S., p. 416, 1863; *Reeve*, *Icon.*, t. 7, f. 51.—Tributary of Adelaide R.
- pyramidata, *Sowerby*, in *Reeve's Icon.*, t. 8, f. 62, 1873.—Australia.
- eburnea, *Sowerby*, op. cit., t. 11, f. 87, 1874.—Tasmania.
- attenuata, *Sowerby*, op. cit., t. 12, f. 94, 1874.—Tasmania.
- mamillata, *Sowerby*, op. cit., t. 11, f. 90, 1874.—Tasmania.

- Brisbanica, *Nelson & Taylor*, op. cit., t. 1., f. 7, p. 288.—
Brisbane R.
- Beddomei, *Nelson & Taylor*, op. cit., t. 1, f. 8, p. 289.—
Townsville, Queensland.
- aciculata, *Sowerby*, in *Reeve's Icon.*, t. 8, f. 59, 1873.—New
South Wales.
- turriculata, *Tate*, Proc. Linn. Soc., N.S.W., Vol. 6 p. 409.—
Ballarat.
- Alicia, *Reeve*, P.Z.S., 1862; *Icon.*, t. 1, f. 6b.—R. Para & R.
Murray (S. Aust.)
- Kershawi, *T.-Woods*, Roy. Soc. Victoria, 1877.—Upper Yarra,
Vict.
- Bonus-Henricus, *Adams & Angas*, P.Z.S., p. 417, 1863; *Reeve*,
Icon., t. 5, f. 38.—Arnheim Land.
- carinata, *H. Adams*, P.Z.S., p. 143, 1861; *Reeve*, t. 3, f. 18.—
Boyne R.
- obesa, *H. Adams*, op. cit., p. 144; *Reeve*, t. 3, f. 24.—R. Fitzroy.
- Cumingi, *H. Adams*, op. cit., p. 144; *Reeve*, t. 6, f. 44.—Port
Essington.
- truncata, *H. Adams*, op. cit., p. 144; *Reeve*, t. 3, f. 20.—R.
Burdekin.
- Reevei, *Adams & Angas*, P.Z.S., p. 417, 1863; *Reeve*, t. 6, f. 40.
—Arnheim Land.

Extra-limital, doubtful, and spurious species of Physa.

- auriculata, Gassies, is from New Caledonia and not Australian as
quoted by Sowerby in *Reeve's Icon. Conch.*
- Kanakina, Gassies, is also a New Caledonian shell and not
Australian as stated by Sowerby in *Reeve's Conch.*
- elongata, Menke, *Malac. Nov. Holl.*, p. 8, name only.—W.
Australia.
- Legrandi, *T.-Woods*, Roy. Soc. Tasm., p. 74, 1876; and
Tasmanica, *T.-Woods*, id., *vide nitida* (*teste Johnston*).
- ciliata, *T.-Woods*, op. cit., p. 75, *vide mamillata* (*teste Johnston*).

Genus *PHYSOPSIS*.

Jukesii, *A. Adams*, P.Z.S., p. 144, 1861; *Reeve* (*Physa*), t. 9, f. 71.—Australia.

Genus *ANCYLUS*.

Cumingianus, *Bourguignat*, Proc. Zool. Soc., 1853, t. 20, f. 1-9; *Reeve*, Icon., t. 1., f. 1.—Tasmania.

Tasmanicus, *T.-Woods*, Trans. R. S. Tasm., 1876, p. 70.—Tasmania.

Woodsii, *Johnston*, id., 1877.—Tasmania.

Australicus, *Tate*, Trans. R. S. S. Aust., 1880, p. 102, t. 4, f. 4.—Adelaide, S.A.

[*Baconi*, *Bourguignat*, P.Z.S., p. 89, 1853. *Reeve*, t. 2, f. 8, is suspected by *Benson* to be Australian and not Bengalese.]

Genus *GUNDLACHIA*.

Petterdi, *Johnston*, Trans. R. Soc. Tasm., 1878, Tasmania.

Genus *PLANORBIS*.

Gilberti, *Dunker*, Proc. Zool. Soc., p. 40, 1848; *Reeve*, t. 5, f. 37.—E. Australia.

obtusus, *Reeve*, Icon. Conch., t. 5, f. 39.—Adelaide.

Australianus, *Martens*, Paetel, Cat. der Conch., p. 116, 1873.—Tasmania.

meridionalis, *Brazier*, Proc. Lin. Soc., N.S.W., p. 20, 1875.—Tasmania.

Atkinsoni, *Johnston*, Roy. Soc. Tasmania, 1878.—Tasmania.

Scottiana, *Johnston*, op. cit.—Tasmania.

planissimus, *Mousson*, Cat. V., Mus. Godeffroy, p. 88, 1874.—Queensland.

Spurious species of Planorbis.

Tasmanicus, *T.-Woods*, Roy. Soc. Tasmania, p. 79, 1876.
meridionalis (*teste Johnston*).

Class GASTROPODA (*Pectinibranchiata*).

Family MELANIADÆ.

Genus MELANIA.

- Cybele*, *Gould*, Proc. Bost. Soc. Nat. Hist., 1847; Exped. Shells, f. 154.—Cardwell, Queensland.
- aculeus*, *Lea*, Trans. Am. Phil. Soc., Phil. V., t. 19, f. 72, 1833.
—Paroo R., Australia, and Philippines.
- Denisoniensis*, *Brot*, in Martini and Chemnitz, Conch. Cabinet, p. 234, pl. 25, fig. 6, 6 *a. b.*, 1874.—Port Denison, Queensland.
- lutosa*, *Gould*, Proc. Boston Soc. Nat. Hist., 1847; *id* Fitzroy Island; Exped. Shells, f. 159, 1852.—Cardwell, Queensland.
- carbonata*, *Reeve*, Conch. Icon. fig. 88, 1859; *Brot*. in Martini and Chemnitz, Conch. Cabinet, p. 153, p. 19, fig. 3, 1874.—Port Essington (British Museum).
- venustula*, *Brot*. in Martini and Chemnitz, Conch. Cabinet p. 331, pl. 34, fig. 5, 5*a*, 1874.—Cape Upstart.
- canalis*, *Lea*, Proc. Zool. Soc., p. 180, 1850.—Belenden-Ker Range.
- costellaris*, *Lea*, *id*, p. 184.—Rockhampton.
- junceæ*, *Lea*, *id*, p. 189.—Burdekin River.
- Balonnensis*, *Conrad*, (1850); Am. Journ. Conch., Vol. 2. t. 1, f. 10, p. 80, 1866.—River Murray, South Australia.
- Tatei*, *Brazier*, Proc. Linn. Soc. N.S.W., Vol. 6, p. 551.—Port Curtis and Clarence River.
- cerea*, *Brot.*, Revue Zool., t. 17, f. 13, 1860.—Australia.
- incerta*, *Brot.*, Mater I., p. 52, 1862.—R. Avon, W. Australia.
- australis*, *Lea*, Proc. Zool. Soc., p. 185, 1850; *Reeve*, Icon. Con., t. 12, f. 82; *Smith*, Voy. Erebus, t. 4, f. 3, 1874.—River Victoria.
- onca*, *Adams* & *Angas*, P.Z.S., 1863.—Tributary of Adelaide R.
- oncoides*, T.-Woods, P.L.S., N.S.W., p. 6, 1878.—R. Darling near Bourke.

Spurious species of Melania.

- lirata*, Menke, Moll. Nov. Holl., p. 9, 1843=*incerta*. The name is preoccupied by a species described by Benson.
- tetrica*, Conrad, (1850); and Ann. Journ. Conch., Vol. 3, t. 1, f. 9, p. 80, (1866)=*Tatei*, Brazier. Dr. Gould described a Figian species under that name in 1847, Proc. Boston Soc. Nat. Hist.
- mitra*, Reeve, Conch. Icon. fig. 175. non Deshayes or Meuschen vide *Cybele* not *M. Australis*, Reeve, not *M. Australis*, Lea, Proc. Acad. Nat. Sci. Philad.

Family PALUDINIDÆ.

Genus PALUDINA.

- Essingtonensis, *Shuttleworth*; *Frauenfeld*, Zool. and B. Gess., Wien, 1862, p. 1162.—Port Essington, (N. Aust.)
- australis, *Reeve*, Icon. Con., t. 11, f. 71, 1863 “probably the foregoing” *Iryon*.—Victoria R. (N. Aust.)
- suprafasciata, *Tryon*, Am. Jour. Conch., Vol. 2., p. 8, t. 2, f. 7, 1866.—Tropical Australia.
- Kingii, *Adams & Angas*, P.Z.S., 1863.—King’s Ponds (C.A.)
- Hanleyi, *Frauenfeld*, op. cit., p. 612.—Lower Murray River.
- Waterhousei, *Adams & Angas*, P.Z.S., 1863.—Newcastle Waters (C.A.)
- sublineata, *Conrad*, Proc. Acad. Sc. Philadelphia, 1850; *id.*, Am. Journ. Con., Vol. 2, t. 1, f. 8, p. 79, 1866.—River Darling.
- polita, *Martens*, Ann. Mag. Nat. Hist., 1865 (non *Frauenfeld* 1862) “probably is *sublineata*,” *Tryon*.—Australia.
- affinis, *Martens*, op. cit.—Australia.
- Alisoni, *Brazier*, Proc. Linn. Sc., N.S.W., Vol. 3, p. 221, 1878.—Diamantina River, Queensland.

Spurious species of Paludina.

- acuta*, Menke, (? non Ferrusac) name only.
- buccinoides*, Quoy & Gaimard, vide *Hydrobia buccinoides*.

granum, Menke, vide *Assimineia granum*.

intermedia, Reeve, Icon. t. 9, f. 57, 1863 (non Deshayes)=*Hanleyi*.

Family VALVATIDÆ.

Genus VALVATA.

Tasmanica, T.-Woods, Proc. Roy. Soc. Tasm., p. 82, 1876.—
Tasmania.

Family NERITIDÆ.

Genus NAVICELLA.

Entrecastauxi, Recluz, Rev. Zool. Soc. Cuvierienne, p. 380, 1841 ;
Reeve, Icon., t. 8, f. 32.—King George's Sound.

Genus NERITINA.

pulligera, *Lamarck*, Anim. s. Vert VI. 2ed p. 184 ; *Sowerby*, Conch.
Illus. f. 26.—Moluccas.

var. *sulcata*, *T.-Woods*, P. Lin. Soc., N.S.W., 1878.—North
Queensland.

auriculata, *Lamarck*, op. cit., p. 186 ; *Sowerby*, Con. Illus, f. 17.
New Holland.

crepidularia, *Lamarck*, op. cit., p. 186 ; *Reeve*, Icon. t. 8, f. 38 ;
Sowerby, Thes. Conch. t. 113, f. 139-143.—Rockingham Bay.

Mertoniana, *Recluz*, P.Z.S., p. 71, 1843 ; *Sowerby*, Thes. Conch.
p. 534, t. 116, f. 242-245.—Cape Sidmouth.

Tritonensis, *Le Gillou*, Rev. Zool. Soc., Cuvier., p. 345, 1841.—
North Australia.

Baconi, *Reeve*, Icon. Conch., t. 28, f. 127.—Swan River.

Dringii, *Recluz*., P.Z.S., p. 121, 1845 ; *Reeve*, t. 29, f. 132.—
Hanover Bay, W. Australia.

Family RISSOIDÆ.

Genus BITHYNIA.

australis, *Tryon*, Am. J. Conch. I., p. 220, t. 22, f. 7, 1865.—
New South Wales.

- vertiginosa, *Frauenfeld*, Zool. Bot. Gess-Wien, 1865, p. 1152, t. 9.—New Holland.
 Schraderi, *Frauenfeld*, op. cit., t. 8.—Australia?
 Dulvertonensis, *T.-Woods*, Roy. Soc., Tasmania, p. 77, 1876.
 —Tasmania.
 Dunrobinensis, *T.-Woods*, id.—Tasmania.
 Victoriæ, *T.-Woods*, Roy. Soc. Victoria, 1877.—Geelong, Vict.
 Dyeriana, *Petterd*, Journ. Conch. II., p. 86, 1879.—Tasmania.

Spurious species of Bithynia.

- Huonensis*, *T.-Woods*.
hyalina, *Brazier*, P. Lin. Soc., N.S.W., I., p. 9, 1875=*Gabbia australis*.
Legrandi, *Tasmanica*, and *unicarinata*, *T.-Woods*, Roy. Soc. Tasm. 1876=*Bithynella nigra*.
Pontivillensis, *T.-Woods*, op. cit., p. 76=*Amnicola Simsoniana*, (*teste Petterd*).

Genus AMNICOLA.

- Tasmaniæ, *T.-Woods*, Roy. Soc. Tasm., p. 117, 1876.—Tasmania.
 Diemense, *Frauenfeld*, Z. and B. Gess-Wien, Vol. 15, t. 10, 1865.
 —Tasmania.
 Launcestonensis, *Johnston*, Roy. Soc. Tasm., 1878.—Tasmania.
 Simsoniana, *Brazier*, Proc. Lin. Soc., N.S.W., I., p. 19, 1875.
 —Tasmania.

Doubtful and spurious species of Amnicola.

- Petterdiana*, *Brazier*, P.L.S., N.S.W., I., p. 19, 1875=*Bithynella nigra* (*teste Woods*).
Preissii, *Gould*, ? "Otia" p. 52.
acuta, *Frauenfeld*, apud *Menke*, name only.
granum, *Frauenfeld*, apud *Menke*, vide *Assimineæ granum*.

Genus BITHYINELLA.

nigra, Quoy & Gaimard, (Paludina), Voy. Astrolabe, III., p. 174, t. 58, f. 9-12; T.-Woods, Proc. R. Soc., Tasm., p. 71, 1880.—Tasmania.

nitida, Johnston, P. Roy. Soc., Tasm., 1878.—Tasmania.

Spurious species of Bithyinella.

Legrandiana, Johnston and Woods, (apud Brazier) vide *B. nigra*.

Genus HYDROBIA.

buccinoides, Quoy & Gaimard, (Paludina) op. cit., t. 58; Frauenfeld, Z. and B., Gess-Wein, p. 582, 1865.—Port Western, Vict.

Gunnii, Frauenfeld, op. cit., vol. 13, p. 1025, 1864; id. p. 526, t. 8, 1865.—Tasmania.

Spurious species of Hydrobia.

nigra, Frauenfeld, vide *Bithyinella nigra*.

Genus PALUDINELLA.

Gilesii, Angas, Proc. Zool. Soc., p. 169, t. 26, f. 2, 1877.—Lake Eyre (C. A.)

Genus PALUDESTRINA.

Spurious species.

Legrandiana, Brazier, P.Z.S., p. 698, 1871.

Wisemaniana, Brazier, id., f p. 699=*Bithyinella nigra*, (teste T.-Woods).

Genus TATEA.

Huonensis, T.-Woods, Roy. Soc. Tasm. p. 77, 1876.—Tasmania.

Spurious species of Gabbia.

Australis, Tryon, vide *Bithynia Australis*.

Genus POMATIOPSIS.

striatula, *Menke*, (*Truncatella*), *Moll. Nov. Holl.*, p. 9, 1848.—W. Australia.

pyrrhostoma, *Cox*, (*Blanfordia*), *Mon. Aust. Land Shells*, p. 95, t. 15, f. 14, 1868.—Sharks' Bay.

Family ASSIMINIDÆ.

Genus ASSIMINEA.

granum, *Menke*, (*Paludina*), *Moll. Nov. Holl.*, p. 8., 1843.—Swan River.

affinis, *Mousson*, *Cat. V.*, *Mus. Godeffroy*, p. 103, 1874.—Rockhampton.

Spurious species.

Tasmanica, *T.-Woods*, and *Rissoa Siennæ*, *id.*, *Proc. Roy. Soc.*, *Tasm.*, p. 78, 1876=*granum*.—Tasmania.

Class LAMELLIBRANCHIATA.

Family CYCLADIDÆ.

Genus SPHERIUM.

egregium, *Gould*, "*Otia*," p. 86, 1850.—River Hunter.

Novo-Zelandicum, *Deshayes*, *Proc. Zool. Soc.*, p. 342, 1854; *Reeve* *Conch. Icon.* f. 37.—Australia and New Zealand.

Tasmanicum, *T.-Woods*, *Proc. Roy. Soc.*, *Tas.*, p. 82, 1876.—Tasmania.

Spurious species of Sphærium.

Cyclas australis, *var.* *Lamarek*, from King George's Sound is probably *Lasæa rubra*, *Montague*.

Cyclas Nepeanensis vide *Corbicula Nepeanensis*.

Genus PISIDIUM.

semen, *Menke*, *Moll. Nov. Holl.*, p. 40, 1843.—Swan River.

Tasmanicum, *T.-Woods*, Proc. Roy. Soc. Tasm., p. 81, 1876.—
Tasmania.

Dulvertonensis, *T.-Woods*, op. cit., p. 82.—Tasmania.

Spurious species of Pisidium.

australe, *Deshayes*, vide *Cyelas australis*.

australe, *Philippi*, is *P. casertanum*.

sinuatum, *Bourgingnat*, J. de Conchyl., III., p. 39, 1852, is not
Australian but a European species *P. casertanum*, *Poli*.

Genus CORBICULA.

australis, *Wood*, Ind. Test. Suppl. 2, t. 14, f. 57; *Deshayes*, Proc.
Zool. Soc., 1854, p. 346.—New Holland and Timor.

Nepeanensis, *Lesson*, (*Cyelas*), Voy. Coq., Vol. 2., p. 428, t. 13,
f. 14, 1830.—River Nepean.

debilis, *Gould*, "Otia," p. 86, 1850.—Hunter River.

ovalina, *Deshayes*, Proc. Zool. Soc., 1824.—Port Essington.

brunnea, *Prime*, Proc. Acad. Sc., Philad., p. 126, 1861.—Tasmania.

minor, *Prime*, op. cit., p. 127.—New Holland.

Angasi, *Prime*, Journ. de Conchyl. XII., p. 151, t. 7, f. 6, 1864.—
R. Murray (S.A.)

baronalis, *Prime*, Ann. Lyc. Nat. Hist. N.Y., IX, 1869.—Moreton
Bay.

prolongata, *Prime*, J. de Conchyl., IX., p. 356, 1861.—Eastern
Australia.

Spurious species of Corbicula.

semisulcata, *Deshayes*, was incorrectly assigned to the Victoria
River, it belongs to South America.

Genus BATISSA.

triquetra, *Deshayes*, Proc. Zool. Soc., 1854.—Australia and
Philippines.

[*Corbicula australis* is referred to *Batissa* in *Prime's* Cat. of
the family.]

Genus CYRENA.

- fallax, *Deshayes*, Proc. Zool. Soc., p. 19, 1854.—Australia and Philippines.
 placida, *Deshayes*, id.—Port Curtis.
 affinis, *Deshayes*, id.—Australia.
 ventricosa, *Deshayes*, id.—Australia and Philippines.
 Essingtonensis *Deshayes*, id.—Port Essington.
 Jukesii, *Deshayes*, id.—Cape Upstart.
 oviformis, *Deshayes*, id.—Port Essington and Philippines.
 eximia, *Dunker*, Zeit. Malak., p. 51, 1852.—Australia and Java.
 cyprinæformis, *Prime*, Ann. Lyc. Nat. Hist., N.Y., VIII., p. 88, f. 37, 1864.—Australia.
 rugulosa, *Mousson*, Paetel, Cat. der Conch, p. 140, 1873.—Cape York.

Spurious species of Cyrena.

- impressa*, *Deshayes*, P.Z.S., p. 18, 1854=*eximia*.

Family UNIONIDÆ.

Genus MYCETOPUS.

- rugatus, *Sowerby*, Reeve, Conch. Icon. t. 17, f. 7; *Smith*.—Victoria River, Voy. "Erebus and Terror," t. 4, f. 1, 1874.

Genus UNIO.

- depressus *Lamarck*, An. s. Vert., VII, p. 79; *Lesson*, Voy. Coq., t. 15, f. 5.—R. Nepean.
 Danellii, *Villa*, J. de Conchyl., XIX., p. 328, 1871.—R. Yarra, Victoria.
 australis, *Lamarck*, id., p. 80.—New Holland; *Menke*, Moll. Nov. Holland.—R. Avon (W. Aust.)
 profugus, *Gould*, "Otia," p. 88, 1850; ed., U.S. Explor. Exp., t. 37, f. 5, p. 42, 1852.—Hunter R. (N.S.W.)
 cultelliformis *Conrad*, Acad. Sc. Philad. Proc., V., p. 10, and Journ. 2nd Ser., II., p. 295, t. 26, f. 2.—R. Bogan (N.S.W.)

- Balonnensis, *Conrad*, id.; Journ. id., p. 295, t. 26, f. 3.—R. Balonne (Queensland).
- caucumoides, *Lea*, Obs. on *Unio*, iii., p. 30, t. 7, f. 2.—Hunter and Richmond Rivers (N.S.W.); *Moretonicus*, *Smith*, Voy. "Erebus," t. 4, f. 2.—R. Membridge (Queensland).
- Moretonicus*, *Sowerby*; *Reeve*, Icon., t. 24, f. 118.—Tasmania.
- Paramattensis*, *Lea*, Proc. Acad. Sc. Philad., 1862; Obs. XI., p. 64, t. 20, f. 59.—Parramatta R. (N.S.W.)
- Wilsoni*, *Lea*, Obs. VII., pt. 2, p. 74, t. 40, f. 137; *Reeve*, t. 88, f. 472.—New South Wales.
- Jeffreysianus*, *Lea*, Proc. Acad. Sc. Phil., Vol. 23, p. 188, 1871.—Australia.
- vittatus*, *Lea*, Obs. *Unio*, VII., pt. 2, p. 67, t. 39, f. 128; *Reeve*, t. 18, f. 83.—Australia.
- Nepeanensis*, *Conrad*, Journ. Acad. Sc. Philad., p. 296, t. 28, f. 19; *Reeve*, t. 32, f. 167.—Australia, River Bogan, (N.S.W.) (*teste* T.-Woods).
- Shuttleworthi*, *Lea*, Obs. VI., pt. 1, p. 24, t. 28, f. 19; *Reeve*, t. 32, f. 167.—R. Bogan (*teste* Woods).
- mutabilis*, *Lea*, Obs. VII., p. 66, t. 38, f. 167; *Reeve*, t. 24, f. 112.—R. Murray, Brisbane Water.
- multidentatus*, *Philippi*, Conchylien III., pt. 2, t. 3, f. 4, p. 46, 1847.—New Holland.
- Novæ Hollandiæ*, *Gray*, Proc. Zool. Soc., 1834, p. 57.—River Macquarie (N.S.W.)
- Angasi*, *Sowerby*, in *Reeve's* Icon., t. 55, f. 282, 1867.—R. Roper (W. Aust.)

Section ALASMODON.

- Stuartii*, *Adams* & *Angas*, P. Zool. Soc., 1863, p. 417; *Reeve*, Icon., t. 54, f. 279, 1866.—Mount Margaret (C.A.)
- Evansii*, *Adams* & *Angas*, P. Z. S., 1864, p. 39; *Reeve*, t. 56, f. 285, 1867.—River Murray (S.A.)

Doubtful and extra limital species of Unio.

- ambiguus*, Philippi; Reeve. *Vide australis.*
Cumingi, Dunker. *Vide cucumoides.*
Moretonicus. Smith, Voy. "Erebus and Terror," t. 4, f. 2, 1874.
Vide cucumoides.
fulmineus, Philippi, Conchylien, III., pt. 2, 1847, p. 46, t. 3,
 f. 5, 6. Not certainly Australian.
superbus, Lea (Hyridella), Obs. IV., p. 39, t. 22, f. 11; Reeve,
 Icon., t. 59, f. 295, 1868. Doubtfully Australian.
Aucklandicus Gray. Very doubtfully Australian.

Genus ANODON.

Spurious species.

- Angasi*, Sowerby, in Reeve's Conch., t. 32, f. 127, 1870=*Unio*
Angasi.
Stuartii, Sowerby, id., t. 34, f. 136, 1870=*Alasmodon Stuartii.*

THE PLANTS OF NEW SOUTH WALES—No. I.

BY THE REV. DR. WOOLLS, D.D., F.L.S., &c.

The publication of the *Flora Australiensis* through the joint labours of Mr. G. Bentham, C.M.G., F.R.S., and Baron F. von Mueller, K.C.M.G., has formed, as it were, an era in the Botany of New South Wales. Though the subject is by no means exhausted, that great work will be regarded as the basis of all future treatises on the Flora of Australia; and as the grand outline is being gradually filled up with descriptions of new plants from different parts of the Continent, it will be seen that the general arrangement of the volumes, as well as the classification of orders, genera, and species, reflects the greatest credit on the distinguished authors. Much, however, remains to be done. Since the appearance of the first volume in 1863 some